## SOME NETV SPECIES OF LEPIDOPTERA.

By TIIE HON. WALTER ROTHSCHILD.

1. Grapta bocki sp. nov.

> (Pl. XI., fig. \%.)
f. Similar to G. gigantea Leach ; but differs in the following characters :-

Itpperside: both wings without the two marginal lines met with in G. giguntea, the black colonr much larger in extent, so that the ochrems markings (which are rufons in G. gigartea) are much reduced in size, and not connected with each other on the forewings.

On the underside the dise of the wings is tawny olive, the margival bluish aigzag line stops at the discal nervule on the hindwings, and, on the torewings. borders only the deep median siuns of the wing ; the white mark of the anterior wings as in G. gigontea, that of the hindwings standing in shape between the mark of G. gigenter and 1'. $c$-enereum (L.).

Expanse : $2 \%$ inches $=\tilde{\%} \mathrm{~mm}$.
Hab. Interior of China (west of Ishang).
Named in hononr of the collector.

## 2. Charaxes tavetensis sp. nov.

ठ. Closely allied to Ch. cacuthis Hew. from Madagascar, in size, colour, and style of marking; but differs in the much narrower pale blue lrand of the forewings, consisting of three distinctly separated marks, the anterior of which betweev the second and third branch of the median nervure is small; the band of the hindwings is posteriorly as broad as in Ch. eacuthis, hat the anterior half from the discal nervile to the costa is strongly narrowed, and being widely interrupted on the nervales dissolved into two small spots; the two small white spots on the hindwing between the brauches of the subcosta, close to the inner margin of the bine band, are absent in the new insect, which has only one white spot beyond the middle of the costa like CH. ctesipe Godt. ; the submargival white spots of the hindwing are a little larger than in Cl. cacuthis.

On the underside the parts which are greenish olive in Ch. cacuthis are blackish brown in my new form ; the cellule between snbmedian uersure and posterior branch of the median one is almost entirely washed with blackish brown, and the brownish black semicircular mark of this cellnle found in Ch. corcuthis is dissolved in Ch. tucetensis sp. nov. into two rather widely separated transverse streaks, the outermost of which reaches the submedian nervares, while the innermost is abbreviated halfway to that nervure, both streak-like markings include each a narrow brown sput at the base; in the next cellale there are two hrown hars nargined with black, approximate and sometimes even confluent josteriorly in $\quad(/ h$, caculhis, while in Ch. tacetensis sp. nov., these markings are parallel and not approximate; the brown har of the following cellule again stands much farther from the angle of the cellule in the new species than in Ch. sacuthis; the immer row of hatk sints crossinge the apical half of the forewing is curvel in Ch. cacuthis, and approaches prosterion?
the above-mentioned brownish black sumicirenlar mark, while it runs almost straight to the submedian nervare in my species. Unterside of the hindwings almost exactly marked as iu the species from Madagascar.

Expanse of wings : 354 inches $=91 \mathrm{~mm}$.
IIab. Taveta (East Africa).

## 3. Charaxes mixtus sp, now. <br> (Pl. XI., fig. ¿.)

ठ. Upperside: both wings dark lhe or brownisk black, when viewed from different sides. Foremings with a corved metian row of foar or five light blne spots, the first of them stands near the end of the cell; a second row, situated towards the apical margin of the wing, consists of two white spots near the costal margin and some very faint light blue spots, the last of which alone, wear the anal angle, is olwions ; outer margin feebly marked with white between the nervules.

Hindwings with a row of semilnar light hane spots crossing the dise, posteriorly aplroaching the aual angle, with a snbmarginal row of small white spots, and a marginal fale blue line, interrupted at the nervules.

Lndervide: both wings drab colonr, dise a little darker. Forewings with a submarginal row of marks, namely : one donble spot in the anal angle, and a rounded one in the second cellule, both hlack, interiorly hordered with a yellowish lnnule each, which itself is margined at the diseal side with lhack, exteriorly bordered with pale blne; three indistinct blackish spots in the median cellules, interiorly bordered with rellowish colour, then two white spots corresponding to those on the apper surface; cell crossed by three black lines; a thin line near the apex of the cell, a transverse band letween the third branch of the median nervale and the submedian nervole, consisting of three lnnolar marks, and two linear markings inside this band, of a black colour.

Hindwings with a number of black linear markings ; two lines crossing the cell, stopping at the median uervule, and a quite irregular row of short markings crossing the dise; a row of lunular slightly rellowish olive spots, the posterior of which situated in the anal angle and marked with two blackish lines like the precediug one ; a sulmarginal row of white point-like spots which bear exteriorly -chiefly the posterior ones-a blue and black mark.

Tails of the hindwings moderately long and thin.
Expanse of wings : 3.\% iuches $=94 \mathrm{~mm}$.
Hah. Laknlele (N. ' 'ongo).
Similar to $1 \%$ numenes Hew. on the upperside, but differs in the hindwings laving an atmost contimous marginal pale blne band ; the underside is nearly marked as in Ch. tiridates Cram., bat the two black lines crossing the cell are not mited at their ends as in that speeies. The tails of the hindwings are much longer than in C'h. momenes IIew., but shorter than in rh. tiridates ''ram.

## 4. Charaxes bipunctatus sil nov.

8. I Pperside of both wings dark lhe. Anterinr wings with a median row of four light blue spots, the two first are sitnated mear the end of the cell; and with a small white spot hehind the costal margin at the beginning of the apical fifth. Apical margin yellowish letween the nervules. Hindwings with a small light blue spot behiud the middle of the costa, and
with two transverse rows of spots of the same colonr, the unter row consists of seven very small markings with a white centre, the inner one of two spots sitnated not far from the two first of the exterior row; apical margin with yellow double spots in the cellules, these spots form a narrow marginal band which is interrupted at the nervules and is bordered exteriorly with a brownish black line.

Inderside of both wings dark olive bnff, tinged with yellow. Anterior wings with three narrow black cellnlar streaks, the exterior of them flexnose; discocellnar nervules thinly lordered with black scales; a thin short line near the apex of the cell, two rather broad bar-like markings behind the cell, and a transverse row of three angnlar marks between the median nervules and submedian nervnre, black; a donble mark in the anal angle, and a feeble spot in the next cellule also black, bearing interiorly a yellowish olive, lundar marking each; a white spot near the costal margin corresponding to the spot on the upper surface; some faint snbmarginal lunoles of a pale olive buff colonr ; all the black markings bordered with light blue. Posterior wings with a number of very thin black lines: one basal, short; the second between costal margin and median nervare, crossing the basal half of the cell, interrupted at the bervures ; the third extending from the costa to the median nervure again, crossing the apical half of the cell, flexuose, scarcely interrupted at the nervures; the others, short, standing in a quite irregnlar transverse row, which begins in the middle of the costal margin and ends at the inner margin rather close to the anal angle; beyond the middle of the dise there are some yellowish olive buff marks the posterior of which are bordered inside and outside with black; a submarginal row of very small spots, light hlue, each spot bearing a white point behind; outer margin marked as ou the upperside, luat the yellow spots paler.

Posterior wings shortly dentated, even more shortly so than in Ch. wumenes Hew.
9. Upper and under surface of the forewings almost exactly marked as in Ch. tiridates C'ram., but the basal half of the upperside of a paler wood brown colour.

Upperside of the hindwings wood brown like the base of the forewings; apical and inner margins brownish black; a small spot of grey scales beyoul the middle of the costa; two or three ill-defined submarginal spots of a buff colour anteriorly at the inside of the blackish marginal area; in this area is at row of faint bluish grey spots ; onter margin with buff markings.

Cnderside as in C\%. tiridates Cram.
Tails of the hindwings very short.
Expanse: $\delta, 3.9$ inches $=101 \mathrm{~mm}$.
" $\quad 9,4.7, \quad=120$,
Hab. West Africa, probably Gold Coast.
The male differs from Ch. tiridutes Cram. and Ck. momenes Hew. in the absence of the exterior row of blue spots from the forewings, in the inner row on the hindwings consisting of two spots only, and in the pattern of the nuder surface. Both sexes have the hindwings rery shortly toothed.

## 5. Teracolus bipartitus s1. nov.

O. Ctpuerside: forewings yellowish white (Naples yellow), more than the apical third blaek: this hack part rather deeply bisinuate on the dise , ineluding
a submarginal row of three yellowish white spots, one near the costal margin, the third, largest, near the anal angle, and the second, smallest, midway between them ; apical margin with laint linear yellowish marks in the cellnles; radial nervules black: base of both wings somewhat blackish.

Hindwings yellowish white; apical half hack, with a transverse row of yellowish white spots gradually decreasing towards the anal angle.

Underside: forewings in gattern like the upperside; but the basal two-thirds almost ochre yellow, the apical angle vinaceons rufons, the marginal yellow spots larger, and the submarginal row of markings consisting of a donbled spot at the costal margin, a small spot each in the diseal cellules, and a larger spot, near the anal angle.

On the hindrings, the basal half lemon yellow, with a faint transverse brownish line: apieal half light vinaceous rufons, marked as the upperside, but the spots larger.

Expanse: 1.6 inch $=46 \mathrm{~mm}$.
Hab. Witu (East Africa).
Allied to T. amina (Hew.) (Exot. Butterth., iii., Picridae, Pl. V111., figs. 1, 2, 3); lont the black colonr on the upperside is much larger in extent, and is bisinuate on the dise of the forewings : T. amine has only a marginal row of yellowish spots on the hindwings, while in my new species there is an additional subdiscal row of spots. On the underside Hewitson's species has a red diseal patch on the forewings which is absent from T. bipartitus; the black and vinaceons rutous colour of the apical third is mach more extended in the wew form, and the yellowish spots are reduced in size; the hindwings which are marked with a snbmarginal brownish band and a discal, interrupted, brownish line in T. aminu (Hew.), have the apical half vimaceons rufons in my species, with a subdiscal and marginal row of yellowish marks.

## 6. Teracolus chromiferus sp. nov.

〕. Ipperside: both wings white, uervules of the forewings feeldy blackish, veins of the hindwings white. Forewings with a black spot at the end of the rell : apex of the wing lake red, this rel patch bordered with black at the costal and marginal sides, not so towards the dise.

Chderside' : forewings white, apex chrome yellow, a black spot at the end of the cell, as on the upperside.

Hindwings chrome yellow, with a small black spot at the apex of the cell, a discal row of very faint black point-like marks, two of them more obvions, one at the costal margin, the other towards the anal angle ; base of the costal margin narrowly hordered with orange chrome.

Bxpanse: 2.95 inches $=75 \mathrm{~mm}$.
ILab, Zambesi River.
Comes nearest to T. Incicha Butl. The red patch of the apex of the forewings is smaller in extent; the veins of the forewings are white for the most part, those of the hindwings entirely white, while in T. buxton, as well as in T. anax, the weins are black: on the nuder surface the forewings are yellow at the apex, and the himpwings, which have a very faint tint of yellow and scarcely a trace of black markings in T. buxtoni, are entirely yellow in the new species, and their dise is almost marked as in T'. enax.

## 7. Peridroma fasciata sp. nov.

8 7. Chpperside: forewings dark wood brown, erossed by two blackish zivzag lines, one sitnated at the base of the cell, the other ontside the reniform mark; the latter, as well as the orbicular spot, obvions : a very indistiuct blackish band runs rom the inner margin close to the end of the exterual zigzag line across the reniform mark to the costa ; the marginal fringe of hairs of the colour of the wing. lut with the extreme base of the hairs yellowish.

Hindwings greyish cream buff, crossed beyomd the middle ly a slightly waved, narrow, hackish land.

C'ulerside: forewings greyish buff at the hase, darker grey towards the onter margin, with a hair brown transverse streak in the apical half.

Hindwings pale hoff, with a hair browu band corresponding to that of the forewing.
Head and collar almost rosset ; thoras grey wood brown ; abdomen cinnamon.
Expanse: $1 \times 5$ inch $=4 \pi \mathrm{~mm}$.
Meh. Milway 1.
Closely allied to $P$. crinigere Butler, from which it chiefly differs in the hindwings being pale buff and crossed by a hair brown band.
8. Peridroma evanescens sp. nov.

ठ尔. Upperside: forewings dark wood brown, with a lrownish black reniform mark, which is indistinct in some examples : het ween this mark and the outer margin is a faint zigzag line; another line is sometimes visible in the lasal half; orbicular spot obvions or wanting; outer margin darker brown between the nervules.

Hindwings pale grevish baft, slightly darker near the outer margin and on the veins ; outer border narrowly margined with dark brown in the $f$, of a buff' colour in the $\delta$.

Underside: both wings uniformly greyish buff, hindwings a little paler than the forewings.

Head and collar cinnamon ; thorax greyish wood brown ; ablomen varying from pale buff to pale clay colour.

Expanse: $\delta, 1 \cdot 4$ inch $=36 \mathrm{~mm}$.
, $\quad \circ, 1 \% 5 .,=47 \mathrm{~mm}$.
Hab, Laysan I.
This form is also similar to $P$. crinigere lontler, but the bindrings are much paler, the markings of the forewings are faint, and in most examples hardly visible.
9. Prodenia laysanensis sp. nov.

उㅇ. Cppersidt : forewings cream buff, parti-coloured with blackish brown and grey, nsually darker in the femmle than in the male, with one transverse whitish streak on the extreme base, then with an irregular row of three more ar less arched whitish marks, one sitnated at the costal margin, one at the inner margin, and the third midway between them, but a little nearer the base; middle of the wing bears an irregular blackish longitudinal patch, bordered towards the costa with a black hair-like line, which is deeply incurved near the apex of the cell ; that patch sometimes extends to the base; outside the patch is one transverse blackish brown zigzag line, exteriorly bordered with grevish white, and a submarginal, scarcely watcol, and at the apex of the costal slightly incurved line of a whitish buff colour, the space between these two lines darker than the onter margin.

Hindwings pale wood brown, with the fringe of the outer margin whitish buff.

I'uterside: whitish cream buft, slightly dusky, with the middle of the primaries, and a submedian fitint band, erossing buth wings, a little more dusky.

Head and collar wood brown ; thorax more grey ; aldomen whitish butf.
Expanse : $\delta, 1 \cdot 4$ iuch $=36 \mathrm{~mm}$.

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., \quad q, 1 \cdot(\%), \quad=42 \mathrm{~mm}
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Ilul. Laysan 1.
Distinguished trom $I$ '. littorolis (Boisd.) by the pattern of the primaries and the wool brown colour of the secondaries.

Limbatochlamys gen. nov.
Allied to Calleremites Warren (ser l', 3~4), but body robnst, apex of forewings pointed, antemna ( $\delta$ ) hiserially pectinate.

Type: L. rosthormi sp. nov.

## 10. Limbatochlamys rosthorni sp. nov.

(Pl. XII., tig. 9.)
Upurerside: forewings olive buff; costal margin hoadly bordered with cream buff, this cream laff border freckled with dark seales and posteriorly terminated by a hairlike black live ; dise with a transverse row of feeble darker olive points standing on the nervules; marginal fringe white.

Hiudwings cream huff, shadowed with dark scales, and feebly tinged with olive buff towards the outer margin; fringe of the latter white: disc crossed by one blackish lmolate line; cell with a blackish snblumular mark at the apex.

C'nderside: hoth wings ochreons lonft, more cream buff towards the onter and posterior margins; onter one-third of the anterior, and onter twothirds of the posterior wings freckled with black seales ; a straight line erossing the dise of the forewings neither reaching the costal nor inner margin, and a cellular spot, black.

Thorax olive buff, with a narrow transterse band of a cream buff colour behind the collar.

Expanse: 3•15 inches $=80 \mathrm{~mm}$.
Hab. Interior of ('hina (prombly districts west of lahang).
Named after the collector.

## 11. Hypochrosis pulchraria sp. nov. <br> (PI. XII., fig. 10.)

L'pperside: both wings pinkish buff, mottled with short fine rays of dark green scales; forewings tinged with orange at the costal margin ; the latter with a dark oil green spot before the middle; a large discal mark of the same dark oil green colonr, extending from the subenstal nervure to the inner margin, is narrowed towards the inner margin, and externally somewhat hent inwards before the snl,median nervure; a small linear marginal spot behind the apex of the wing, and a submargimal very short flexnose line, which stands in a brownish ill-definel pateh before the anal angle, dark olive green.

Hindwings pale cream lnif at the onter margin ; a narrow median transverse band, anteriorly ahbreviated, and a hasal rather large mark, which is more or less rounded, of the green colour of the disula area of the forewings.

L'uldrside ochreons rutons; torewings with a linear smot at the end of the cell, atnd with an ill-defined patch in the aual angles, black.

Expausp of wings : $1 \cdot 97$ inch $=50 \mathrm{~mm}$.
Ihul. ,hillong aud Cherrapungi (Assam, October and Novemher 1-93.
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